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## ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/897,776A

DATE: 03/18/2002

TIME: 15:38:33

Input Set : A:\08411-027001.txt

Output Set: N:\CRF3\03182002\1897776A.raw

```
4 <110> APPLICANT: Schnable, Patrick S.
 5
         Liu, Feng
         Fu, Yan
 6
 8 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING MULTIPLE
         START CODONS AND HISTIDINE TAGS
11 <130> FILE REFERENCE: 08411-027001
13 <140> CURRENT APPLICATION NUMBER: US 09/897,776A
14 <141> CURRENT FILING DATE: 2001-06-29
16 <150> PRIOR APPLICATION NUMBER: US 09/732,990
17 <151> PRIOR FILING DATE: 2000-12-08
19 <150> PRIOR APPLICATION NUMBER: US 60/169,725
20 <151> PRIOR FILING DATE: 1999-12-08
22 <160> NUMBER OF SEQ ID NOS: 37
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 93
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Synthetically generated oligonucleotide
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (1)...(84)
37 <221> NAME/KEY: CDS
38 <222> LOCATION: (88)...(93)
40 <400> SEQUENCE: 1
41 aag ctt cac cac cat cat cat cac gca tca cca cca cca cgc atc
42 Lys Leu His His His His His Ala Ser Pro Pro Pro Pro Arg Ile
                                        10
45 atc atc acc atc acc tcg agc gtc aca cta gct gag taa gca tgc
                                                                          93
46 Ile Ile Thr Ile Thr Ser Ser Val Thr Leu Ala Glu
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 66
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Synthetically generated oligonucleotide
57 <400> SEQUENCE: 2
58 gtacccacca ccatcatcat cacgcatcac caccaccacc acgcatcatc atcaccatca
                                                                           60
59 cctcga
                                                                           66
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 14
63 <212> TYPE: DNA
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RAW SEQUENCE LISTING

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TIME: 15:38:33

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Input Set : A:\08411-027001.txt

Output Set: N:\CRF3\03182002\I897776A.raw

- 64 <213> ORGANISM: Artificial Sequence
- 66 <220> FEATURE:
- 67 <223> OTHER INFORMATION: linker
- 69 <400> SEQUENCE: 3
- 70 ctgcagcggc cgcg
- 72 <210> SEQ ID NO: 4
- 73 <211> LENGTH: 22
- 74 <212> TYPE: DNA
- 75 <213> ORGANISM: Artificial Sequence
- 77 <220> FEATURE:
- 78 <223> OTHER INFORMATION: linker
- 80 <400> SEQUENCE: 4
- 81 ctaggcgccg gcgacgtctc ga
- 83 <210> SEQ ID NO: 5
- 84 <211> LENGTH: 16
- 85 <212> TYPE: DNA
- 86 <213> ORGANISM: Artificial Sequence
- 88 <220> FEATURE:
- 89 <223> OTHER INFORMATION: linker
- 91 <400> SEQUENCE: 5
- 92 ctagctgcag atatca 94 <210> SEQ ID NO: 6
- 95 <211> LENGTH: 16
- 96 <212> TYPE: DNA
- 97 <213> ORGANISM: Artificial Sequence
- 99 <220> FEATURE:
- 100 <223> OTHER INFORMATION: linker
- 102 <400> SEQUENCE: 6
- 103 agcttgatat ctgcag 105 <210> SEQ ID NO: 7
- 106 <211> LENGTH: 25
- 107 <212> TYPE: DNA
- 108 <213> ORGANISM: Artificial Sequence
- 110 <220> FEATURE:
- 111 <223> OTHER INFORMATION: primer for PCR
- 113 <400> SEQUENCE: 7
- 114 ccatcgatcc gagatagggt tgagt
- 116 <210> SEQ ID NO: 8
- 117 <211> LENGTH: 20
- 118 <212> TYPE: DNA
- 119 <213> ORGANISM: Artificial Sequence
- 121 <220> FEATURE:
- 122 <223> OTHER INFORMATION: primer for PCR
- 124 <400> SEQUENCE: 8
- 125 acgageteag geagagaega
- 127 <210> SEQ ID NO: 9
- 128 <211> LENGTH: 20
- 129 <212> TYPE: DNA
- 130 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING

DATE: 03/18/2002 TIME: 15:38:33

PATENT APPLICATION: US/09/897,776A

Input Set : A:\08411-027001.txt

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- 132 <220> FEATURE:
- 133 <223> OTHER INFORMATION: primer for PCR
- 135 <400> SEQUENCE: 9
- 136 acgagetege agagacgacg
- 138 <210> SEQ ID NO: 10
- 139 <211> LENGTH: 26
- 140 <212> TYPE: DNA
- 141 <213> ORGANISM: Artificial Sequence
- 143 <220> FEATURE:
- 144 <223> OTHER INFORMATION: primer for PCR
- 146 <400> SEQUENCE: 10
- 147 cctcgagtca cacaggaaac agctaa
- 149 <210> SEQ ID NO: 11
- 150 <211> LENGTH: 24
- 151 <212> TYPE: DNA
- 152 <213> ORGANISM: Artificial Sequence
- 154 <220> FEATURE:
- 155 <223> OTHER INFORMATION: primer for PCR
- 157 <400> SEQUENCE: 11
- 158 ggctagcagc tgtttcctgt gtga 24
- 160 <210> SEQ ID NO: 12
- 161 <211> LENGTH: 18
- 162 <212> TYPE: DNA
- 163 <213> ORGANISM: Artificial Sequence
- 165 <220> FEATURE:
- 166 <223> OTHER INFORMATION: primer for PCR
- 168 <400> SEQUENCE: 12
- 169 gtggagcatc tggtcgca
- 171 <210> SEQ ID NO: 13
- 172 <211> LENGTH: 37
- 173 <212> TYPE: DNA
- 174 <213> ORGANISM: Artificial Sequence
- 176 <220> FEATURE:
- 177 <223> OTHER INFORMATION: primer for PCR
- 179 <400> SEQUENCE: 13
- 180 gagatetgee ataacatgte ateatagetg ttteetg 37
- 182 <210> SEQ ID NO: 14
- 183 <211> LENGTH: 35
- 184 <212> TYPE: DNA
- 185 <213> ORGANISM: Artificial Sequence
- 187 <220> FEATURE:
- 188 <223> OTHER INFORMATION: linker
- 190 <400> SEQUENCE: 14
- 191 ctagccgaaa ttaatacgac tcactatagg gagac
- 193 <210> SEQ ID NO: 15
- 194 <211> LENGTH: 66
- 195 <212> TYPE: DNA
- 196 <213> ORGANISM: Artificial Sequence
- 198 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 03/18/2002 TIME: 15:38:33

PATENT APPLICATION: US/09/897,776A

Input Set : A:\08411-027001.txt

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199	<223> OTHER INFORMATION: Synthetically generated oligonucleotide	
	<400> SEQUENCE: 15	
202	tatacatatg gcatggcatg gccactgcag gatccaccac catcatcatc acgcatcacc	60
	accacc	66
	<210> SEQ ID NO: 16	
	<211> LENGTH: 67	
	<212> TYPE: DNA	
210	<213> ORGANISM: Artificial Sequence <220> FEATURE:	
211	<pre>&lt;223&gt; OTHER INFORMATION: Synthetically generated oligonucleotide &lt;400&gt; SEQUENCE: 16</pre>	
214	gacgtcgcat gcttactcag ctagtgtgat ggtgatgatg atggcctatg gtggtggtgg tgatgcg	60
	<210> SEQ ID NO: 17	67
	<211> LENGTH: 97	
	<212> TYPE: DNA	
	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Synthetically generated oligonucleotide	
225	<400> SEQUENCE: 17	
	taatacgact cactataggg agaccacaac ggtttccctc tagaaataat tttgtttaac	60
227	tttaagaagg agatatacat atggcatggc atggcca	97
	<210> SEQ ID NO: 18	51
	<211> LENGTH: 13	
	<212> TYPE: DNA	
	<213> ORGANISM: Artificial Sequence	
234	<220> FEATURE:	
235	<223> OTHER INFORMATION: Synthetically generated oligonucleotide	
	<400> SEQUENCE: 18	
	atggcatggc atg	13
240	<210> SEQ ID NO: 19	
241	<211> LENGTH: 35	
	<212> TYPE: DNA	
	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<223> OTHER INFORMATION: linker	
	<400> SEQUENCE: 19	
	aattgtotoo otatagtgag togtattaat ttogg	35
	<210> SEQ ID NO: 20	
	<211> LENGTH: 28	
	<212> TYPE: PRT	
	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<pre>&lt;223&gt; OTHER INFORMATION: Synthetically generated peptide</pre>	
	<400> SEQUENCE: 20	
260	Lys Leu His His His His His Ala Ser Pro Pro Pro Arg Ile	
	_ 10	
263	Ile Ile Thr Ile Thr Ser Ser Val Thr Leu Ala Glu	
203	20 25	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/897,776A

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Input Set : A:\08411-027001.txt

Output Set: N:\CRF3\03182002\I897776A.raw

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265 <210> SEQ ID NO: 21
 266 <211> LENGTH: 93
 267 <212> TYPE: DNA
 268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
 271 <223> OTHER INFORMATION: Synthetically generated oligonucleotide
 273 <221> NAME/KEY: CDS
 274 <222> LOCATION: (2)...(76)
 276 <221> NAME/KEY: CDS
 277 <222> LOCATION: (80)...(91)
 279 <400> SEQUENCE: 21
 280 a age tte ace ace ate ate acg cat cac cac cac cac gca tca
                                                                            49
       Ser Phe Thr Thr Ile Ile Ile Thr His His His His His Ala Ser
 281
 282
 284 tca tca cca tca cct cga gcg tca cac tag ctg agt aag cat
                                                                            91
 285 Ser Ser Pro Ser Pro Arg Ala Ser His
                                            Leu Ser Lys His
 286
                  20
 288 gc
                                                                            93
 290 <210> SEQ ID NO: 22
 291 <211> LENGTH: 25
 292 <212> TYPE: PRT
 293 <213> ORGANISM: Artificial Sequence
 295 <220> FEATURE:
296 <223> OTHER INFORMATION: Synthetically generated peptide
 298 <400> SEQUENCE: 22
299 Ser Phe Thr Thr Ile Ile Ile Thr His His His His His Ala Ser
301 Ser Ser Pro Ser Pro Arg Ala Ser His
302
304 <210> SEQ ID NO: 23
305 <211> LENGTH: 4
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Synthetically generated peptide
312 <400> SEQUENCE: 23
313 Leu Ser Lys His
314 1
316 <210> SEQ ID NO: 24
317 <211> LENGTH: 93
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Synthetically generated oligonucleotide
324 <221> NAME/KEY: CDS
325 <222> LOCATION: (3)...(80)
327 <221> NAME/KEY: CDS
328 <222> LOCATION: (84)...(92)
330 <400> SEQUENCE: 24
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/897,776A

DATE: 03/18/2002 TIME: 15:38:34

Input Set : A:\08411-027001.txt
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